BENGALURU SOLID WASTE MANAGEMENT LIMITED

TENDER DOCUMENT – KW4

Name of Work-

LED Projector screen in the parks Lalbagh / Cubbon park / selected parks/lakes among the wards

BENGALURU SOLID WASTE MANAGEMENT LIMITED

Office of the Deputy General Manager-1 (BSWML), 1st Floor, UNI Building, Thimmaiah Road, Vasanth Nagar, Bengaluru–560 052.

TENDERS FOR THE WORK OF

Sl No	Name of Work	Value of Work (in Lakhs)
1	LED Projector screen in the parks (Lalbagh /Cubbon park/selected parks/lakes) among the wards	517.17

TENDER REFERENCE	No. DGM-1/BSWML/TEND/05/2024-25 Date:30.09.2024
PRE-BID MEETING WILL BE HELD ON	05.10.2024 at 3.00 PM
LAST DATE AND TIME FOR RECEIPT OF TENDERS	15.10.2024 on or before 4.00 PM
TIME AND DATE OF OPENING OF COVER ONE OF TENDERS	16.10.2024 at 4.30 PM
PLACE OF PRE-BID MEETING WILL BE HELD	Office of the Deputy General Manager-1 (Tech),BSWML, 1st Floor, UNI Building, Thimmaiah Road, Bengaluru-560052.
TIME AND DATE OF OPENING OF COVER TWO OF TENDERS	Will be intimated to the Qualified Tenderers
PLACE OF OPENING OF COVER TWO OF TENDERS AND ADDRESS FOR COMMUNICATION:	Office of the Deuty General Manager -1 , BSWML, 1st Floor,UNI Building, Thimmaiah Road, Bengaluru-560052.
	Mob: +91 9844587466

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BENGALURU SOLID WASTE MANAGEMENT LIMITED

Office of the Deputy General Manager-1,BSWML, 1st Floor, UNI Building, Thimmaiah Road, Vasanth Nagar, Bengaluru – 560 052

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No:DGM-1/BSWML/TEND/05/2024-25 Date:30.09.2024

INVITATION FOR BIDS (IFT)

Short Term Bid Notification
(Only through GOK KPP Portal Only)

1. The Grants have been provided under BBMP Grants for the works mentioned in the table below and accordingly action plan for the same has been approved by the Board.

2. In this regard, The Deputy General Manager, Bengaluru Solid Waste Management Limited on behalf of the Managing Director, BSWML, Bengaluru invites bids from eligible bidders for the works detailed in the table below. The Bidders may submit bids for works given in the table through KPP portal of the Government of Karnataka (viz. https://KPPP.karnataka.gov.in) The Bidders are advised to note the minimum qualification criteria specified in Clause-3 as per KW-4 of the instructions to bidders to qualify for award of the contract.
3. Bid documents may be downloaded from the KPP portal of the Government of Karnataka.
4. Other details can be seen in the tender documents.

Sl No.	Name of the work	Approx. Amount put to Bid (Rs. in lakhs) Excluding GST	EMD (Amount in Rs.)	Cost of Bid Document	Stipulated completion period (including monsoon period)
1	Renovation and up-gradation of existing DWCC's	319.61	Rs.1,00,000/- through e-payment under one of the following i.e., online / RTGS / NEFT / OTC and the balance Rs.2,20,000/- by Bank Guarantee/FDR issued by Nationalized/ Scheduled Bank	As per KPP portal	3 Months
2.	LED Projector screen in the parks (Lalbagh /Cubbon park/selected parks/lakes) among the wards (Call-2)	517.17	Rs.1,00,000/- through e-payment under one of the following i.e., online / RTGS / NEFT / OTC and the balance Rs.4,18,000/- by Bank Guarantee/FDR issued by Nationalized/ Scheduled Bank	As per KPP portal	12 Months

1. Pre bid meeting will be held on 05.10.2024 at 15:00 hours in office of the Deputy General Manager -1, BSWML, UNI Building, Thimmaiah Road,Vasanth Nagar, Bengaluru - 560052.
2. Technical Documents along with necessary information/documents must be uploaded to the KPP portal https://KPPP.karnataka.gov.in as per tender document on or before 16:00 hours of 15.10.2024. The Technical bid will be opened through kpp-portal only on 16.10.2024 after

16:30 hours at the stipulated venue through kpp-portal in the presence of the bidders or their authorized representatives who wish to attend the opening process. If the office happens to be closed on the date of opening of the bids as specified, the bids will be opened on the next working day at the same time and venue.

3. The Employer shall not be liable for any delays due to system failure beyond its control. Even though the system will attempt to notify the bidders of any tender updates, the Employer shall not be liable for any information not received by the bidders. It is the bidder's responsibility to verify the KPP portal for the latest information related to the bids, E-mail address of the Helpdesk is hphelpdesk.blr@intarvo.com. KPP portal help desk telephone numbers are: 080-22371090/22373788. The bidders is required to ensure browser capability of the computer well in advance to the last date and time for receipt of the bids. The employer shall not be responsible for non-accessibility of KPP portal due to internet connectivity issues and technical glitches.
4. Any corrigendum/addendum will be published in the KPP portal only.

Sd/-
Deputy General Manager -1
BSWML

Copy Submitted to the:

1. Hon'ble Chairman, BSWML & ACS, UDD for kind information.
2. Hon'ble Managing Director BSWML/Chief Commissioner, BBMP for kind Information.
3. Chief Executive Officer (BSWML)/Special Commissioner, BBMP for kind Information.
4. Chief Operational Officer (BSWML), for kind information.
5. Chief Financial officer (BSWML)/CAO, BBMP for kind information.
6. Chief Engineer & Chief General Manager (Tech), BSWML, for kind information.
7. Company Secretary, BSWML for kind necessary action.
8. Office Copy.

Sd/-
Deputy General Manager -1
BSWML

SECTION 2: INSTRUCTIONS TO TENDERERS (ITT)

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A. General

1. Scope of Tender

The Deputy General Manager-1, BSWML, on behalf of the Managing Director, BSWML (Referred to as Employer in these documents) invites ITEM RATE tenders following Two Cover tender procedure, from eligible Tenderers, for the works of "LED Projector screen in the parks (Lalbhagh / Cubbon park/ selected parks/lakes among the wards" (as defined in these documents and referred to as "the works") detailed in the Table given in the Invitation for Tenders (IFT). The Tenderers may submit tenders for any or all of the works detailed in the table given in IFT. The work shall involve commissioning of such system and integrating with Integrated Command & Control Centre of BSWML and also maintaining the system for 5 years. The system should be able to display additional Public Information contents as approved by BSWML. Display/Screen should be clear even during day Sunlight (Good Visibility). During rainy condition also display should run normally.

2. Eligible Tenderers

Tenderers shall not be under a declaration of ineligibility for corrupt and fraudulent practices issued by theGovernment of Karnataka/BBMP. A Bidder shall be any individual, Firm, Agency registered BBMP, BDA, NH, PWD, CPWD or other central/state agencies with qualification as set forth in clause 3 below.

Tenders from Joint ventures are not acceptable.

3. Qualification of the Tenderer:

All Tenderers shall provide the requested information accurately and in sufficient detail in Section 3: Qualification information.

To qualify for award of this contract, each Tenderer in its name should have in the last five financial years (i.e. **2019-20 to 2023-24**)

(a) Achieved in at least two financial years a minimum financial turnover (in all classes of similar nature of works / LED Projector Display) of **Rs.1040.00 lakhs**

(b) **Mandating satisfactorily completion as a prime** contractor, at least one similar nature of work in LED Projector Display (Outdoor/Public Space) works to as extent of 50% of the cost of the work **(Rs.259.00 lakhs)**

(c) executed in any one financial year, the following minimum quantities of work:[1](usually 80% of the peak annual rate of construction).

SLNo	Item	Unit	Qty/Event
1	LED Projector screen (Outdoor Display Wall) of a size 4.8m x 3.84m	No	4.00

(d) Company should have Experience in monitoring the environmental sensing in Air quality index (AQI) & qualified/Certified Ethical Hacker and Information Technology Lead Auditor.

(e) Should have Network Operating Centre with VIDEOWALLS to monitor Outdoor Display remotely.

(f) Should be certified by OEM for having designing and executing indoor and outdoor display.

(g) Vendor should have inhouse civil team to carry out erection of pole and other related civil works (Withstanding Wind Speed, SBC of soil etc)

(h) Vendor should have Expert Surveillance team for CCTV live transmission and experts to develop a proprietary analytic software customized to BSWML.

(i) Should have Environmental sensor expert, with qualified team for software and DATA integration.

The relevant proof of documents regarding qualification criteria should be submitted like work order, work done certificate (in case of work executed) duly certified by an officer of the rank of Executive engineer and above

from any Govt/PSU/semi Govt/ Govt undertaking and Educational/Auditor certificate for validation of qualified staff. Work order issued by the Government organization to vendor / Sub vendor will also be considered.

Experts should have educational certificate/Experienced letter working in the same expertise field for a minimum of 3-5 years.

Each Tenderer should further demonstrate:

(a) Liquid assets and /or availability of credit facilities of not less than **Rs. 518.00 Lakhs** (Credit lines/ letter of credit/ certificates from Nationalised / Commercial Scheduled banks for meeting the fund requirement etc.

Deleted

4. One Tender per Tenderer

Each tenderer shall submit only one tender for one package. A tenderer who submits or participates in more than oneTender (other than as a sub-contractor or in cases of alternatives that have been permitted or requested) will cause all the proposals with the Tenderer's participation to be disqualified.

5. Cost of Tendering:

The tenderer shall bear all costs associated with the preparation and submission of his tender, and the Employer will in no case be responsible and liable for those costs.

6. Site visit:

The Tenderer at his own responsibility and risk is encouraged to visit and examine the Site of Works and its surroundings and obtain all information that may be necessary for preparing the Tender and entering into a contract for construction of the Works. The cost of visiting the Site shall be at the Tenderer's own expense.

B. Tender documents

7. Content of Tender documents

The set of tender documents shall have all the Sections given in Page **3**
Both the sets should be completed and returned with the tender.

8. Clarification of Tender Documents

A prospective tenderer requiring any clarification of the tender documents may notify the Employer in writing or by cable (hereinafter "cable" includes telex and facsimile) at the Employer's address indicated in the invitation to tender. The Employer will respond to any request for clarification which he receives earlier than 15 days prior to thedeadline for submission of tenders. Copies of the Employer's response will be forwarded to all purchasers of the tender documents, including a description of the enquiry but without identifying its source.

Pre-tender meeting:

The tenderer or his authorized representative is invited to attend a pre-tender meeting which will take place at Office of the Office of the Deputy General Manager -1, BSWML, 1st Floor, UNI Building, Thimmaiah Road, Bengaluru-560052 **on 05.10.2024 at 3.00 PM.**
The purpose of the meeting will be to clarify issues and to answer questions on any matter that may be raised at that stage.
The tenderer is requested to submit any questions in writing or by cable to reach the Employer not later than **05.10.2024 at 4.00PM.**
Minutes of the meeting, including the text of the questions raised (without identifying the source of enquiry) and the responses given will be transmitted without delay to all purchasers of the tender documents. Any modification of the tender documents listed in Sub-Clause 7.1 which may become necessary as a result of the pre-tender meeting shall be made by the Employer exclusively through the issue of an Addendum pursuant to Clause 9 and not through the minutes of the pre-tender meeting.
Non-attendance at the pre-tender meeting will not be a cause for disqualification of a tenderer.

9. Amendment of Tender documents

Before the deadline for submission of tenders, the Employer may modify the tender documents by issuing addenda.
Any addendum thus issued shall be part of the tender documents and shall be communicated in writing or by cable to all the purchasers of the tender documents.
To give prospective Tenderers reasonable time in which to take an addendum into account in preparing their tenders, the Employer shall extend as necessary the deadline for submission of tenders, in accordance with Sub-Clause 16.2 below

C. Preparation of Tenders

10. Documents comprising the Tender

The tender submitted by the Tenderer shall be in two covers and shall contain the documents as follows:

First Cover:

(a) Earnest Money Deposit;
(b) Qualification Information as per formats given in Section 3;

Second Cover:

(a) The Tender (in the format indicated in Section 4)
(b) Priced Bill of Quantities (Section 9);

and any other materials required to be completed and submitted by Tenderers in accordance with these instructions. The documents listed under Sections 3, 4, 6 and 9 shall be filled in without exception.
Tenderers submitting tenders together with other contracts stated in the IFT to form a package will so indicate in the tender together with any discounts offered for the award of more than one contract.

11. Tender prices

The contract shall be for the whole works as described in Sub-Clause 1.1, based on the priced Bill of Quantities submitted by the Tenderer.
The Tenderer shall fill in rates and prices and line-item total (both in figures and words) for all items of the Works described in the Bill of Quantities along with total tender price (both in figures and words). **Items for which no rate or price is entered by the Tenderer will not be paid for by the Employer when executed and shall be deemed covered by the other rates and prices in the Bill of Quantities**. Corrections, if any, shall be made by crossing out, initialing, dating and rewriting.
All duties, taxes, and other levies payable by the contractor under the contract, or for any other cause, shall be included in the rates, prices and total Tender Price submitted by the Tenderer.
The rates and prices quoted by the Tenderer shall be subject to adjustment during the performance of the Contract in accordance with the provisions of Clause of the Conditions of Contract

12. Tender validity

Tenders shall remain valid for a period not less than **One Hundred and Eighty days (180)** after the deadline date for tender submission specified in Clause 16. A tender valid for a shorter period shall be rejected by the Employer as non-responsive.

In exceptional circumstances, prior to expiry of the original time limit, the Employer may request that the Tenderers may extend the period of validity for a specified additional period. The request and the Tenderers' responses shall be made in writing or by cable. A Tenderer may refuse the request without forfeiting his earnest money deposit. A Tenderer agreeing to the request will not be required or permitted to modify his tender, but will be required to extend the validity of his earnest money deposit for a period of the extension, and in compliance with Clause 13 in all respects.

13. Earnest money deposit

The Tenderer shall furnish, as part of his tender, Earnest Money Deposit (EMD) in the amount as mentioned in IFT for this particular Work. Further, out of the total EMD Amount only Rs. 1.00 Lakh (Rupees One Lakh only) shall be paid in the KPP Portal using any of the following modes and the Balance Amount shall be in the form of Bank Guarantee from any Bank.

- Credit Card.
- Direct Debit.
- National Electronic Fund Transfer (NEFT).
- Over the Counter (OTC).

NEFT Payment Procedure:

If a Tenderer chooses to make Payment of EMD / Tender Processing FEE using Reserve Bank of India's (RBI) National Electronic Fund Transfer (NEFT) System, the Tenderer will need to log into kppp System, access the Tender for which Bid is being created and then select the NEFT Option under the Payment Section and print the Challan shown in that Section. The Printed Challan will have the Unique Bid Reference Number, Account Details of Government of Karnataka and the Amount to be remitted. The Tenderer shall submit the Printed Challan to its Bank Branch (NEFT enabled) and request foran Account – to – Account Transfer, wherein the money will get transferred from the Tenderer‟s Bank Account to GOK‟s Bank Account. The Tenderer shall ensure that NEFT Transfer Instructions are executed and the Funds are wired to the Government of Karnataka's Principal Account before the Last Date for Bid Submission and preferably 24 hours before the Last Date for Bid Submission. If the Tenderer‟s Bank transfers / wires the money after the Last Date for Bid Submission, the Tenderer‟s Bid will be liable for rejection. Upon executing the Transfer, the Tenderer's Bank will provide a Reference Number generated by NEFT Software as Confirmation of Transfer, which has to be input by the Tenderer in the Payment Section of its Bid as Payment Confirmation before the Bid is submitted i.e. as a pre requisite for Bid Submission. The Account Number from which the Funds were transferred shall be input in the KPPP System as part of its Bid also.

OTC Payment Procedure:

If a Tenderer chooses to make Payment of EMD / Tender Processing FEEs Over The Counter (OTC) in any of the designated Axis Bank Branches listed in the KPPP Website (www.kppp.karnataka.gov.in), the Tenderer will need to log intoKPPP System, access the Tender for which Bid is being created and then select the OTC Option under the PaymentSection and print the Challan shown in that Section. The Printed Challan will have the Unique Bid Reference Number andthe Amount to be remitted along with the Challan. The Tenderer can choose to make the Payment either in the form of Cash or in the form of Demand Draft. Cheque Payments will not be accepted. The Tenderer is requested to specifically inform the Bank Officer to input the Unique Bid Reference Number printed in the Challan in the Banking Software. Upon successful Receipt of the Payment, the Bank will provide a 16 Digit Reference Number acknowledging the Receipt of Payment. This 16 Digit Reference Number has to be input by the Tenderer in the Payment Section of its Bid as Payment Confirmation before the Bid is submitted i.e. as a pre requisite for Bid Submission.

The Tenderer shall furnish, as part of his tender, earnest money deposit (EMD) at the following rates
a) upto Rs.20 Lakhs - 2.5%
b) Rs.20 Lakhs and above upto Rs. 1 crore – 2% subject to a minimum of Rs. 50,000/-
c) Rs.1 crore and above upto Rs.10 crores – 1% subject to a minimum of Rs. 2,00,000/-
d) Rs.10 crores and above – 1% subject to a minimum of Rs.15,00,000/-.

e) Fixed Deposit Receipt (FDR) subject to the following condition

- Maturity date of FDRs issued by the Bank should be beyond the date expected date of finalization of the tender.

Earnest money deposit will have to be in any one of the forms as specified in the Tender document and as per circular PWD:15: ITC:2008/2009 Dated:02-12-2010 (Minimum of Rs.1,00,000/- through e-payment under of the following i.e., online / RTGS / NEFT / OTC and the balance by bank guarantee/FDR issued by Nationalized/ Scheduled Bank and shall have to be valid for 90 days beyond the validity of the tender.

As per Circular: PWD:15: ITC:2008/2009 Dated:02-12-2010 the Tenderer shall submit the ORIGINAL BG/FDR for Part EMD on or before the Opening of Technical Bid, if failed to submit, the bidwill be rejected and the initial amount deposited through KPPP will be forfeited and further their names will be proposed for Black Listing if resorted repeatedly.

Instruments having fixed validity issued as earnest money deposit for the tender shall be valid for 90 days **beyond** the validity of the tender.

Any tender not accompanied by an acceptable earnest money deposit and not secured as indicated in Sub-Clauses 13.1 and 13.2 above shall be rejected by the Employer as non-responsive.

The earnest money deposit of unsuccessful Tenderers will be returned within 30 days of the end of the tender validity period specified in Sub-Clause 12.1.

The earnest money deposit of the successful Tenderer will be discharged when the Tenderer has signed the

Agreement and furnished the required Performance Security.

The earnest money deposit may be forfeited:

(a) if the Tenderer withdraws the Tender after tender opening during the period of tender validity;
(b) if the Tenderer does not accept the correction of the Tender Price, pursuant to Clause 24; or
(c) in the case of a successful Tenderer, if the Tenderer fails within the specified time limit to
(i) sign the Agreement; or
(ii) Furnish the required Security deposit

14. Format and signing of Tender

Tenderer shall submit the Bid electronically before the submission date and time published in kpp portal.

D. Submission of Tenders

15. Sealing and marking of tenders

Tenderer shall submit the Tender document electronically before the submission date and time published. The document for submission shall be uploaded in PDF format and submitted in the order mentioned below.

1. Content sheet with name of folder / file, No of pages in each folder / file and size of the folder/file.

FIRST COVER /FOLDER (TECHNICAL PART)

2. As per Section 3 - Qualification information
a. Qualification information summary sheets
b. Affidavit as per the format attached in qualification information.
c. Brief description of tenderer with the details of contact person for communication with BSWML
d. Attested copy of Registration certificate of the contractor
e. EMD as specified in the Table of I TT in the document.
f. Power of attorney for signing the tender as per the format attached in qualification information.
g. Work performed & quantity executed as per Table with supporting certificates from client for the claims mentioned in tables of qualification information.
h. Tables Qualification information with supporting certificate from client &calculation sheet for available tender capacity.
i. Availability of machinery as per Table of qualification information.
j. Experience & qualification of key persons as per Table of qualification information.
k. Financial statement for past five F.Y, contains balance sheet, profit& loss, statement on cash on hand, liquid assets etc from Charted Accountant.
l. Line of credit and details of tenderers bank with reference as per format attached in qualification information.
n. Litigation history as per Table. Of qualification information.
o. Method adopted for construction program, bar chart, quality assurance program as per clause 1.13 of qualification information
p. Undertaking for the tender is valid for 180 days as per clause 1.14 of qualification information.

SECOND COVER/FOLDER (FINANCIAL PART)

a. Form of tender as per section 4 (I) of tender document.
b. Priced Bill of Quantity.
c. Any other materials required to be completed and submitted by Tenderers in accordance with ITT.

Deleted
Deleted

16. Deadline for submission of the Tenders

Tenders must be received by the Employer at the address specified above no later than **4.00PM hours on 15.10.2024**
In the event of the specified date for the submission of tenders being declared a holiday for the Employer, the tenders will be received up to the appointed time on the next working day.
The Employer may extend the deadline for submission of tenders by issuing an amendment in accordance with Clause 9, in which case all rights and obligations of the Employer and the Tenderers previously subject to the original deadline will then be subject to the new deadline.

17. Late Tenders

Any Tender received by the Employer after the deadline prescribed in Clause 16 will be returned unopened to the Tenderer.

18. Modification and Withdrawal of Tenders

Tenderers may modify contents of First or Second Covers separately for each Cover or withdraw their Tenders by giving notice in writing before the deadline prescribed in Clause 16.
Each Tenderer's modification separately for each Cover or withdrawal notice shall be prepared, sealed, marked, and delivered in accordance with Clause 14 & 15, with the outer and inner envelopes additionally marked "**MODIFICATION FOR FIRST/SECOND COVER**" or "**WITHDRAWAL**", as appropriate.
No Tender may be modified after the deadline for submission of Tenders.
Withdrawal or modification of a Tender between the deadline for submission of Tenders and the expiration of the original period of Tender validity specified in Clause 12.1 above or as extended pursuant to Clause 12.2 may result in the forfeiture of the earnest money deposit pursuant to Clause 13.

18.1 Tenderers may only offer discounts to, or otherwise modify the prices of their Tenders by submitting Tender modifications in accordance with this clause, or included in the original Tender submission.

E. Tender opening and evaluation

19. Opening of First Cover of all Tenders and evaluation to determine qualified Tenderers:

The Employer will open the First Covers of all the Tenders received (except those received late or withdrawn), including modifications for First Cover made pursuant to Clause 18, in the presence of the Tenderers or their representatives who choose to attend at 23.07.2024 at 4.30 PM on the date and the place specified in Clause 16. In the event of the specified date of Tender opening being declared a holiday for the Employer, the Tenders will be opened at the appointed time and location on the next working day.

Deleted

The Tenderers names, the presence or absence of earnest money deposit (amount, format and validity), the submission of qualification information and such other information as the Employer may consider appropriate will be announced by the Employer at the opening.

The Employer shall prepare minutes of the Tender opening, including the information disclosed to those present in accordance with Sub-Clause 19.3.

Deleted

The Employer will evaluate and determine whether each tender

(a) meets the eligibility criteria defined in ITT Clause 2;

(b) is accompanied by the required earnest money deposit as per stipulations in ITT Clause and

(c) Meets the minimum qualification criteria stipulated in ITT Clause 3. The Employer will draw out a list of qualified Tenderers.[2]

20. Opening of Second Cover of qualified Tenderers and evaluation:

The Employer will inform all the Qualified Tenderers the time, date and venue fixed for the opening of the Second Cover containing the priced Tenders. The Employer will open the Second Covers of Qualified Tenderers at the appointed time and date (as indicated in the kppp portal) in the presence of the Tenders or their representatives who choose to attend. In the event of the specified date of Second Cover opening being declared a holiday for the Employer, the Second Covers will be opened at the appointed time and location on the next working day.

Deleted
Deleted

The Employer shall prepare minutes of the Second Cover Tender opening.

21. Process to be confidential

Information relating to the examination, clarification, evaluation, and comparison of Tenders and recommendations for the award of a contract shall not be disclosed to Tenderers or any other persons not officially concerned with such process until the award to the successful Tenderer has been announced. Any effort by a Tenderer to influence the Employer's processing of Tenders or award decisions may result in the rejection of his Tender.

22 Clarification of Tenders

To assist in the examination, evaluation, and comparison of Tenders, the Employer may, at his discretion, ask any Tenderer for clarification of his Tender, including breakdowns of unit rates. The request for clarification and the response shall be in writing or by cable, but no change in the price or substance of the Tender shall be sought, offered, or permitted except as required to confirm the correction of arithmetic errors discovered by the Employer in the evaluation of the Tenders in accordance with Clause 24.

Subject to sub-clause 22.1, no Tenderer shall contact the Employer on any matter relating to its Tender from the time of the Tender opening to the time the contract is awarded. If the Tenderer wishes to bring additional information to the notice of the Employer, it should do so in writing.

Any effort by the Tenderer to influence the Employer in the Employer’s Tender evaluation, Tender comparison or contract award decisions may result in the rejection of the Tenderers‟ Tender.

23. Examination of Tenders and determination of responsiveness

Prior to the detailed evaluation of Tenders, the Employer will determine whether each Tender;
(a) has been properly signed; and;
(b) is substantially responsive to the requirements of the Tender documents.
A substantially responsive Tender is one which conforms to all the terms, conditions, and specifications of the Tender documents, without material deviation or reservation. A material deviation or reservation is one
(a) which affects in any substantial way the scope, quality, or performance of the Works;
(b) which limits in any substantial way, inconsistent with the Tender documents, the Employer's rights or the Tenderer's obligations under the Contract; or
(c) whose rectification would affect unfairly the competitive position of other Tenderers presenting substantially responsive Tenders.
If a Tender is not substantially responsive, it will be rejected by the Employer, and may not subsequently be made responsive by correction or withdrawal of the nonconforming deviation or reservation.

24. Correction of errors

The Tenderer may modify the tender only before the last date for submission of the tender, as indicated on the kppp portal.

25. Evaluation and comparison of Tenders

The Employer will evaluate and compare only the Tenders determined to be substantially responsive in accordance with Clause 23.
Deleted (Since Bids submitted online only)
The Employer reserves the right to accept or reject any variation, deviation, or alternative offer. Variations,deviations, and alternative offers and other factors which are in excess of the requirements of the Tender documents or otherwise result in unsolicited benefits for the Employer shall not be taken into account in Tender evaluation.

The estimated effect of the price adjustment conditions under Clause 41 of the Conditions of Contract, during the implementation of the Contract, will not be taken into account in tender Evaluation
If the tender of the successful tenderer is seriously unbalanced in relation to the Employer’s estimate of the cost of the work to be performed under the contract, the Employer may require the Tenderer to produce detailed price analyses for any or all items of the Bill of Quantities, to demonstrate the internal consistency of those prices with theconstruction methods and schedule proposed. After evaluation of the price analyses, the Employer may require that the amount of the performance security set forth in Clause 29 be increased at the expense of the successful Tenderer to a level sufficient to protect the Employer against financial loss in the event of default of the successful under the contract.

F. Award of Contract

26. Award criteria

Subject to Clause 27, the Employer will award the Contract to the Tenderer whose Tender has been determined to be substantially responsive to the Tender documents and who has offered the lowest evaluated Tender Price, provided that such Tenderer has been determined to be

(a) eligible in accordance with the provisions of Clause 2, and
(b) qualified in accordance with the provisions of Clause 3.

27. Employer's right to accept any Tender and to reject any or all Tenders

Not with standing Clause 26, the Employer reserves the right to accept or reject any Tender, and to cancel the Tender process and reject all Tenders, at any time prior to the award of Contract, without thereby incurring any liability to the affected Tenderer or Tenderers or any obligation to inform the affected Tenderer or Tenderers of the grounds forthe Employer's action.

28. Notification of award and signing of Agreement

The Tenderer whose Tender has been accepted will be notified of the award by the Employer prior to expiration of the Tender validity period by cable, telex, e-mail or facsimile confirmed by registered letter. This letter (hereinafter and in the *Conditions of Contract* called the "Letter of Acceptance") will state the sum that the Employer will pay the Contractor in consideration of the execution, completion, and maintenance of the Works by the Contractor as prescribed by the Contract (hereinafter and in the Contract called the "Contract Price").
The notification of award will constitute the formation of the Contract, subject only to the furnishing of Security deposit in accordance with the provisions of Clause 29.
The Agreement will incorporate all agreements between the Employer and the successful Tenderer. It will be kept ready for signature of the successful Tenderer in the office of Employer within 30 days following the notification of award along with the Letter of Acceptance. Within 20 days of receipt, the successful Tenderer will sign the Agreement and deliver it to the Employer.
Upon the furnishing by the successful Tenderer of the Performance Security, the Employer will promptly notify the other Tenderers that their Tenders have been unsuccessful.

29. Security deposit

Within 20 days of receipt of the Letter of Acceptance, the successful Tenderer shall deliver to the Employer a Security deposit in any of the forms given below for an amount equivalent to 5% of the Contract price plus additional security for unbalanced tenders in accordance with Clause 25.5 of ITT and Clause 44 of the Conditions of Contract for all works.*:*

- Cash or
- Banker’s cheque/Demand draft/Pay Order in favour of Managing Director, BSWML payable at Bangalore or
- A bank guarantee in the form given in Section 10; or
- Specified Small Savings Instruments pledged to Managing Director, BSWML payable at Bangalore

If the security deposit is provided by the successful Tenderer in the form of a Bank Guarantee, it shall be issued either by a Nationalized/Scheduled bank.

The security deposit if furnished in cash or demand draft can, if requested, be converted to interest bearing securities at the cost of the successful Tenderer/ contractor.
Failure of the successful Tenderer to comply with the requirements of Sub-Clause 29.1 shall constitute sufficient grounds for cancellation of the award and forfeiture of the Earnest money deposit.

30 Advance Payment and Security:

The Employer will provide an advance payment on the contract price as stipulated in the Conditions of Contract, subject to the maximum amount as stated in the Contract Data.

31. Corrupt or Fraudulent practices

The BSWML requires that the Tenderers/Suppliers/Contractors, observe the highest standard of ethics during the procurement and execution of such contracts. In pursuance of this policy, BSWML :

(a) will reject a proposal for award if it determines that the Tenderer recommended for award has engaged in corrupt or fraudulent practices in competing for the contract in question;

(b) will declare a firm ineligible, either indefinitely or for a stated period of time, to be awarded a BSWML contract if it at any time determines that the firm has engaged in corrupt or fraudulent practices in competing for, or in executing, a BSWML contract.

Furthermore, Tenderers shall be aware of the provision stated in sub-clause 50.2 of the Conditions of Contract.

SECTION 3: QUALIFICATION INFORMATION

The information to be filled in by the Tenderer hereunder will be used for purposes of computing Tender capacity as provided for in Clause 3 of the Instructions to Tenderers. This information will not be incorporated in the Contract.

Constitution or legal status of Tenderer [Attach copy]

Place of Registration _____ (Attach Copy)

Principal place of business: _____

Total No. of LED Projector Screen Installed
and payments received in the last five years
(in Rs. Lakhs) Attach Certificate from Chartered Accountant

2019 - 20 …….
2020 - 21 …….
2021 - 22 …….
2022 - 23…….
2023 - 24…….

Work performed as Prime Contractor (in the same name) on works of similar nature over during the five years specified in 1.2 above.

Project Name	Name of Employer	Descrip-tion of Work	Contract Number	Value of Contract Rs. Lakhs	Date of issue of work order	Specified period of completion	Actual date of	Remarks explaining reasons for delay in completion of work
1	2	3	4	5	6	7	8	9

Deleted
Deleted

1.6. Qualification and experience of the key technical and management personnel in permanent employment with the tenderer and those that are proposed to be deployed on this contract, if awarded.

Co-Ordinator (To ensure safe installation of Poles/Screen)		Diploma in Civil Engg or other degree	2-3 yrs experience in Site Works/Pole installation Works	2
Environmental expert		B.E / M.Tech	2-3 yrs experience in Environmental works and should have a knowledge of pollution parameters (AQI)	1
Hacker Expert		BE in CS	Ethical hacking certification.	1

1.9. Name, address, and telephone, telex, and fax numbers of the Tenderers' bankers who may provide references if contacted by the Employer. Evidence of access to financial resources to meet the qualification requirement specified in ITT Clause3.3 (b): Cash in hand, Letter of Credit etc. List them below and attach certificate from the Banker in the suggested format as under:

ON BANKS LETTER HEAD

……..

FORMAT OF BANKER'S CERTIFICATE/ LINE OF CREDIT LETTER

(TO BE ISSUED IN THE LETTER HEAD OF THE BANK BRANCH)

Reference Number (Sl. No.)
Place:
Date :

To:
(Name of Address of the Beneficiary)

This is to certified that, Mr./ Mrs .....(Name of the Customer) having his/ their registered/ Administrative office at ……. Is a customer of our bank and is/ are engaged in..... (Name of activity). If the said customer is allotted/ awarded with .....(Brief details of works), we may extend the credit facilities up to Rs. ……. Lakhs to meet his/ their working capital requirement towards the execution of the said work order as per the loan policy of the Bank.
This certificate is valid up to 3 months from the date of issue, i.e. up to dd/mm/yyyy.

Yours faithfully,

Branch Manager.

SECTION 4: FORMS OF TENDER, LETTER OF ACEPTANCE, NOTICE TO PROCEED WITH THE WORK AND AGREEMENT FORM

Form of Tender

"LED Projector screen in the parks (Lalbhagh / Cubbon park/ selected parks/lakes among the wards"

To,

Deputy General Manager-1
Office of the BSWML, 1st Floor,
UNI Building, Thimmaiah Road,
Vasanth Nagar, Bangalore-52.

GENTLEMEN,

We offer to execute the Works described above in accordance with the Conditions of Contract accompanying this Tender for the Contract Price of …….. *[in figures] (*.....) *[in letters]*.[4]

This Tender and your written acceptance of it shall constitute a binding contract between us. We understand that you are not bound to accept the lowest or any Tender you receive.

The advance payment required is Rs…….

We undertake that, in competing for (and, if the award is made to us, in executing) the above contract, we will strictly observe the laws against fraud and corruption in force in India namely "Prevention of Corruption Act 1988".

hereby confirm that this Tender complies with the Tender validity and Earnest money deposit required by the Tender documents.

We attach herewith our current income-tax clearance certificate.

Yours faithfully,

Authorized Signature:
Name & Title of Signatory: _____

Name of Tenderer _____
Address: .....

[4] To be filled in by the Tenderer, together with his particulars and date of submission at the bottom of the Form of Tender

Letter of Acceptance

(letterhead paper of the Employer) ..... [date]

To:

……

……[name and address of the Contractor]

Dear Sirs,

This is to notify you that your Tender dated for execution of the "LED Projector screen in the parks (Lalbhagh / Cubbon park/ selected parks/lakes among the wards" for the Contract Price of Rupees …… ……..(.....) [amount in words and figures], as corrected and modified in accordance with the Instructions to Tenderers is hereby accepted by our Agency.

You are hereby requested to furnish Security deposit plus additional security for unbalanced tenders in terms of Clause 25.5 of ITT, in the form detailed in Clause 29.1 of ITT for an amount of Rs.....within 20 days of the receipt of this letter of acceptance valid up to 30 days from the date of expiry of Defects Liability Period i.e. up to..... and sign the contract, failing which action as stated in Para 29.4 of ITT will be taken.

Yours faithfully,

Authorized Signature
Name and Title of Signatory
Name of Agency

Issue of Notice to proceed with the work

(Letterhead of the Employer)

…….(date)

To

……

……

…… (name and address of the Contractor)

Dear Sirs:

Pursuant to your furnishing the requisite security deposit as stipulated in ITT Clause 29.1 and signing of the contract agreement for the construction of "LED Projector screen in the parks (Lalbhagh / Cubbon park/ selected parks/lakes among the wards" A Tender Price of Rs……..., you are hereby instructed to proceed with the execution of the said works in accordance with the contract documents.

Yours faithfully,

(Signature, name and title of signatory

authorized to sign on behalf of Employer)

Agreement Form

Agreement

This agreement, made the …….day of ……20....., between……
…….[name and address of Employer] (hereinafter called "the Employer") of the one part and ……..…….
……...[name and address of contractor] (hereinafter called "the Contractor") of the other part.

Whereas the Employer is desirous that the Contractor execute ……...
……
……[name and identification number of Contract] (hereinafter called "the Works") and the Employer has accepted the Tender by the Contractor for the execution and completion of such Works and the remedying of any defects therein at a contract price of Rupees'.....

NOW THIS AGREEMENT WITNESSETH as follows:

1. In this Agreement, words and expression shall have the same meanings as are respectively assigned to them in the Conditions of Contract hereinafter referred to, and they shall be deemed to form and be read and construed as part of this Agreement.
2. In consideration of the payments to be made by the Employer to the Contractor as hereinafter mentioned, the Contractor hereby covenants with the Employer to execute and complete the Works and remedy any defects therein in conformity in all aspects with the provisions of the Contract.
3. The Employer hereby covenants to pay the Contractor in consideration of the execution and completion of the Works and the remedying the defects wherein the Contract Price or such other sum as may become payable under the provisions of the Contract at the times and in the manner prescribed by the Contract.
4. The following documents shall be deemed to form and be read and construed as part of this Agreement, viz:
   - i) Letter of Acceptance;
   - ii) Notice to proceed with the works;
   - iii) Contractor"s Tender;
   - iv) Contract Data;
   - v) Conditions of contract (including Special Conditions of Contract);
   - vi) Specifications;
   - vii) Drawings;
   - viii) Bill of Quantities; and
   - ix) Any other document listed in the Contract Data as forming part of the contract.

In witness whereof the parties thereto have caused this Agreement to be executed the day and year first before written.

The Common Seal of ……
……
was hereunto affixed in the presence of:
Signed, Sealed and Delivered by the said
……
……

in the presence of:
Binding Signature of Employer
……
Binding Signature of Contractor
……

SECTION 5: CONDITIONS OF CONTRACT

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Conditions of Contract

A. General

1. Definitions

Terms which are defined in the Contract Data are not also defined in the Conditions of Contract but keep their defined meanings. Bold letters are used to identify defined terms.
Bill of Quantities means the priced and completed Bill of Quantities forming part of the Tender.
Compensation events are those defined in Clause 38 hereunder.
The **Completion Date** is the date of completion of the Works as certified by the Employer in accordance with Sub Clause 46.1.
The **Contract** is the contract between the Employer and the Contractor to execute, complete and maintain the Works. It consists of the documents listed in Clause 2.2 below.
The **Contract Data** defines the documents and other information which comprise the Contract.
The **Contractor** is a person or corporate body whose Tender to carry out the Works has been accepted by the Employer.
The **Contractor's Tender** is the completed Tender document submitted by the Contractor to the Employer.
The **Contract price** is the price stated in the Letter of Acceptance and thereafter as adjusted in accordance with the provisions of the Contract.
Days are calendar days; **months** are calendar months.
A **Defect** is any part of the Works not completed in accordance with the Contract.
The **Defects liability period** is the period named in the Contract Data and calculated from the Completion Date which is 12 months for this project.
The **Employer** is the party who will employ the Contractor to carry out the Works.
Equipment is the Contractor's machinery and vehicles brought temporarily to the Site to construct the Works.
The **Initial Contract price** is the Contract Price listed in the Employer's Letter of Acceptance.
The **Intended Completion Date** is the date on which it is intended that the Contractor shall complete the Works. The Intended Completion Date is specified in the Contract Data. The Intended Completion Date may be revised onlyby the Employer by issuing an extension of time.
Maintenance Period is the period named in the Contract Data, during which Contractor shall maintain the works completed by him for a period of 12 months effective from last day of Defect Liability Period
Materials are all supplies, including consumables, used by the contractor for incorporation in the Works.
Plant is any integral part of the Works which is to have a mechanical, electrical, electronic or chemical or biological function.
The **Site** is the area defined as such in the Contract Data.
Specification means the Specification of the Works included in the Contract and any modification or addition made or approved by the Employer.
The **Start Date** is given in the Contract Data. It is the date when the Contractor shall commence execution of the works. It does not necessarily coincide with any of the Site Possession Dates.
A **Subcontractor** is a person or corporate body who has a Contract with the Contractor to carry out a part of the work in the Contract which includes work on the Site.
A **Variation** is an instruction given by the Employer which varies the Works.
The **Works** are what the Contract requires the Contractor to construct, install, and turn over to the Employer, as defined in the Contract Data.

2. Interpretation

In interpreting these Conditions of Contract, singular also means plural, male also means female or neuter, and the other way around. Headings have no significance. Words have their normal meaning under the language of the Contract unless specifically defined. The Employer will provide instructions clarifying queries about the Conditions of Contract.
The documents forming the Contract shall be interpreted in the following order of priority:

(1) Agreement
(2) Letter of Acceptance, notice to proceed with the works
(3) Contractor‟s Tender
(4) Contract Data

(5) Conditions of Contract
(6) Specifications
(7) Drawings
(8) Bill of quantities and
(9) any other document listed in the Contract Data as forming part of the Contract.

3. Law governing contract

The law governing the Contract is the Laws of India supplanted by the Karnataka Local Acts.

4. Employer's decisions

Except where otherwise specifically stated, the Employer will decide contractual matters between the Employer and the Contractor.

5. Delegation

The Employer may delegate any of his duties and responsibilities to other people after notifying the Contractor and may cancel any delegation after notifying the Contractor.

6. Communications

Communications between parties which are referred to in the conditions are effective only when in writing. A notice shall be effective only when it is delivered (in terms of Indian Contract Act).

7. Subcontracting (Deleted)

Deleted.

8. Other Contractors

The Contractor shall cooperate and share the Site with other contractors, public authorities, utilities, and the Employer.

9. Personnel

The Contractor shall employ the technical personnel (of number and qualifications) as may be stipulated by GOK from time to time during the execution of the work. The technical staff so employed shall be available at site as may be stipulated by the Employer.
If the Employer asks the Contractor to remove a person who is a member of the Contractor's staff or his work force stating the reasons, the Contractor shall ensure that the person leaves the Site within seven days and has no further connection with the work in the Contract.

10. Employer's and Contractor's risks

The Employer carries the risks which this Contract states are Employer's risks, and the Contractor carries the risks which this Contract states are Contractor's risks.

11. Employer's risks

The Employer is responsible for the excepted risks which are:
(a) rebellion, riot commotion or disorder unless solely restricted to employees of the Contractor or his Sub-Contractors arising from the conduct of the Works; or
(b) a cause due solely to the design of the Works, other than the Contractor's design; or
(c) any operation of the forces of nature (in so far as it occurs on the Site) which an experienced contractor:
(i) could not have reasonably foreseen; or
(ii) could reasonably have foreseen, but against which he could not reasonably have taken at least one of the following measures;

(A) prevent loss or damage to physical property from occurring by taking appropriate measures or
(B) insure against such loss or damage

12. Contractor's risks

All risks of loss of or damage to physical property and of personal injury and death which arise during and in consequence of the performance of the Contract other than the excepted risks are the responsibility of the Contractor.

13. Insurance:

The Contractor shall prior to commencing the works, effect and thereafter maintain insurances , in the joint names of the Employer and the Contractor, (cover from the first working day after the Start Date to the end of Defects Liability Period), in the amounts stated in the Contract Data :

(a) for loss of or damage to the Works, Plants and Materials and the Contractor's equipment;
(b) for liability of both Parties for loss, damage, death and injury to third parties or their property arising out of the Contractor's performance of the Contract including the Contractor's liability for damage to the Employer's property other than the Works and
(c) for liability of both Parties and of any Employer's representative for death and injury to the Contractor's personnel except to the extent that liability arises from the negligence of the Employer, any Employer's representative or their Employees.

Policies and certificates for insurance shall be delivered by the Contractor to the Employer for his approval before the Start Date. All such insurance shall provide for compensation to be payable to rectify the loss or damage incurred. All payments received from insurers relating to loss or damage shall be held jointly by the Parties and usedfor the repair of the loss or damage or as compensation for loss or damage that is not to be repaired.

If the Contractor fails to effect or keep in force any of the insurances referred to in the previous sub-clauses or fails to provide satisfactory evidence, policies or receipts, the Employer may without prejudice to any other right or remedy, effect insurance for the cover relevant to such default and pay the premiums due and recover the same as a deduction from any other monies due to the Contractor. If no payments is due, the payment of the premiums shall bea debt due.

Alterations to the terms of an insurance shall not be made without the approval of the Employer.

Both Parties shall comply with any conditions of the insurance policies.

14. Site Investigation Reports:

The Contractor, in preparing the tender, shall rely on any site investigation reports referred to in the Contract data, supplemented by any information available to the Tenderer.

15. Queries about the Contract Data

The Employer will clarify queries on the Contract Data.

16. Contractor to construct the Works

The Contractor shall construct the Works in accordance with the Specification and Drawings.

17. The Works to be completed by the Intended Completion Date

The Contractor may commence execution of the Works on the Start Date and shall carry out the Works in accordance with the program submitted by the Contractor, as updated with the approval of the Employer, and complete them by the Intended Completion Date.

18. Approval by the Employer:

The Contractor shall submit Specification and drawings showing the proposed Temporary Works to the Employer, who is to approve them if they comply with the Specifications and Drawings.

The Contractor shall be responsible for the design of Temporary Works

The Employer's approval shall not alter the Contractor's responsibility for design of the Temporary Works.

The Contractor shall obtain approval of third parties to the design of third parties to the design of the temporary Works where required.
All Drawings prepared by the Contractor for the execution of the temporary or permanent Works, are subject to prior approval by the Employer before their use.

19. Safety

The Contractor shall be responsible for the safety of all activities on the Site.

20. Discoveries

20..1 Anything of historical or other interest or of significant value unexpectedly discovered on the Site is the property of the Employer. The Contractor is to notify the Employer of such discoveries and carry out the Employer's instructions for dealing with them.

21. Possession of the Site

The Employer shall give possession of all parts of the Site to the Contractor. If possession of a part is not given by the date stated in the Contract Data the Employer is deemed to have delayed the start of the relevant activities and this will be Compensation Event.

22. Access to the Site

The Contractor shall allow the Employer and any person authorized by the Employer access to the Site, to any place where work in connection with the Contract is being carried out or is intended to be carried out and to any place where materials or plant are being manufactured / fabricated / assembled for the works.

23. Instructions

The Contractor shall carry out all instructions of the Employer which comply with the applicable laws where the Site is located.

24. Procedure for resolution of Disputes:

If the Contractor is not satisfied with the decision taken by the Employer, the dispute shall be referred by either party to Arbitration within 30 days of the notification of the Employer's decision.
If neither party refers the dispute to Arbitration within the above 30 days, the Employer's decision will be final and binding.
The Arbitration shall be conducted in accordance with the arbitration procedure stated in the Special Conditions of Contract.

B. Time Control

25. Program

Within the time stated in the Contract Data the Contractor shall submit to the Employer for approval a Program showing the general methods, arrangements, order, and timing for all the activities in the Works.
The Employer's approval of the Program shall not alter the Contractor's obligations. The Contractor may revise the Program and submit it to the Employer again at any time. A revised Program is to show the effect of Variations and Compensation Events.

26. Extension of the Intended Completion Date

The Employer shall extend the Intended Completion Date if a Compensation Event occurs or a Variation is issued which makes it impossible for Completion to be achieved by the Intended Completion Date.
The Employer shall decide whether and by how much to extend the Intended Completion Date within 21 days of the Contractor asking the Employer for a decision upon the effect of a Compensation Event or Variation and submitting full supporting information.

27. Delays ordered by the Employer

The Employer may instruct the Contractor to delay the start or progress of any activity within the Works.

28. Management meetings

The Employer may require the Contractor to attend a management meeting. The business of a management meeting shall be to review the progress achieved and the plans for remaining work.
The responsibility of the parties for actions to be taken is to be decided by the Employer either at the management meeting or after the management meeting and stated in writing to be distributed to all who attended the meeting.

C. Quality Control

29. Identifying defects

The Employer shall check the Contractor's work and notify the Contractor of any Defects that are found. Such checking shall not affect the Contractor's responsibilities. The Employer may instruct the Contractor to search for a Defect and to uncover and test any work that the Employer considers may have a Defect

30. Tests

If the Employer instructs the Contractor to carry out a test not specified in the Specification to check whether any work has a Defect and the test shows that it does, the Contractor shall pay for the test and any samples. If there is no Defect the test shall be a Compensation Event.

31. Correction of defects

The Employer shall give notice to the Contractor of any Defects before the end of the Defects Liability Period, which begins at Completion and is defined in the Contract Data. The Defects Liability Period shall be extended for as long as Defects remain to be corrected.
Every time notice of a Defect is given, the Contractor shall correct the notified Defect within the length of time specified by the Employer's notice.

32. Uncorrected defects

If the Contractor has not corrected a Defect within the time specified in the Employer's notice, the Employer will assess the cost of having the Defect corrected, and the Contractor will pay this amount.

D. Cost Control

33. Bill of Quantities (BOQ)

The BOQ shall contain items for the construction, installation, testing, and commissioning work to be done by the Contractor.
The BOQ is used to calculate the Contract Price. The Contractor is paid for the quantity of the work done at the rate in the BOQ for each item

34. Variations

The Employer shall have power to order the Contractor to do any or all of the following as considered necessary or advisable during the progress of the work by him

(a) Increase or decrease of any item of work included in the Bill of Quantities (BOQ);
(b) Omit any item of work;
(c) Change the character or quality or kind of any item of work;
(d) Change the levels, lines, positions and dimensions of any part of the work;
(e) Execute additional items of work of any kind necessary for the completion of the works; and
(f) Change in any specified sequence, methods or timing of construction of any part of the work.

The Contractor shall be bound to carry out the work in accordance with any instructions in this connection, which may be given to him in writing by the Employer and such alteration shall not vitiate or invalidate the contract.

Variations shall not be made by the Contractor without an order in writing by the Employer, provided that no order in writing shall be required for increase or decrease in the quantity of an item appearing in the BOQ so long as the work executed conforms to the approved drawings.
The Contractor shall promptly request in writing to the Employer to confirm verbal orders and the officer issuing oral instructions shall confirm it in writing within 30 days, failing which the work shall be carried out as though there is no variation. In case variation is approved it shall be accompanied by BOQ, failing which the contractor shall be responsible for deviation if any. Further, approval of Govt. / BSWML has to be obtained for the variation exceeding 5%.

35. Payments for Variations

Payment for increase in the quantities of an item in the BOQ up to 25% of that provided in the Bill of Quantities shall be made at the rates quoted by the Contractor.
For quantities in excess of 125% of the tendered quantity of an item as given in the BOQ, the Contractor shall be paid at the rate entered in or derived from in the Schedule of Rates (applicable for the area of the work and current atthe time of award of contract) plus or minus the overall percentage of the original tendered rates over the current Schedule of Rates prevalent at the time of award of contract.
If there is no rate for the additional, substituted or altered item of the work in the BOQ, efforts would be made to derive the rates from those given in the BOQ or the Schedule of Rates (applicable for the area of the work and current at the time of award of contract) and if found feasible the payment would be made at the derived rate for the item plus or minus the overall percentage of the original tendered rates over the current Schedule of Rates prevalent at the time of award of contract
If the rates for additional, substituted or altered item of work cannot be determined either as at 35.1 or 35.2 or 35.3 above, the Contractor shall be requested to submit his quotation for the items supported by analysis of the rate or rates claimed, within 7 days.
If the Contractor's quotation is determined unreasonable, the Employer may order the Variation and make a change to the Contract Price which shall be based on Employer's own forecast of the effects of the Variation on the Contractor's costs.
If the Employer decides that the urgency of varying the work would prevent a quotation being given and considered without delaying the work, no quotation shall be given and the Variation shall be treated as a Compensation Event.
Under no circumstances the Contractor shall suspend the work on the plea of non-settlement of rates for items falling under this Clause.

36. Submission of bills for payment

The Contractor shall submit to the Employer monthly bills of the value of the work completed less the cumulative amount paid previously.
The Employer shall check the Contractor's bill and determine the value of the work executed which shall comprise of (i) value of the quantities of the items in the BOQ completed and (ii) valuation of Variations and Compensation Events.
The Employer may exclude any item paid in a previous bill or reduce the proportion of any item previously paid in the light of later information.

37. Payments

Payments shall be adjusted for deductions for advance payments other than recoveries in terms of contract and taxes, at source, as applicable under the law. The Employer shall pay the Contractor the within 60 days of submission of bill. The contractor shall be liable to pay liquidated damages for shortfall in progress. For progress beyond theagreed programmer payment is subject to availability of the grants.
Items of the Works for which no rate or price has been entered in will not be paid for by the Employer and shall be deemed covered by other rates and prices in the Contract.

38. Compensation events

The following are Compensation events unless they are caused by the Contractor:

(a) The Employer does not give access to a part of the Site by the Site Possession Date stated in the Contract Data.
(b) The Employer orders a delay or does not issue drawings, specifications or instructions required for execution of works on time.

(c) The Employer instructs the Contractor to uncover or to carry out additional tests upon work which is then found to have no Defects.
(d) The Employer gives an instruction for dealing with an unforeseen condition, caused by the Employer, or additional work required for safety or other reasons.
(e) The effect on the Contractor of any of the Employer's Risks.
(f) The Employer unreasonably delays issuing a Certificate of Completion.
(g) Other Compensation Events listed in the Contract Data or mentioned in the Contract.

If a Compensation Event would cause additional cost or would prevent the work being completed before the Intended Completion Date, the Contract Price shall be increased and/or the Intended Completion Date is extended. The Employer shall decide whether and by how much the Contract Price shall be increased and whether and by how much the Intended Completion Date shall be extended.
As soon as information demonstrating the effect of each Compensation event upon the Contractor's forecast cost has been provided by the Contractor, it is to be assessed by the Employer and the Contract Price shall be adjusted accordingly. If the Contractor's forecast is deemed unreasonable, the Employer shall adjust the Contract Price based on Employer's own forecast. The Employer will assume that the Contractor will react competently and promptly to the event.
The Contractor shall not be entitled to compensation to the extent that the Employer's interests are adversely affected by the Contractor not having given early warning or not having cooperated with the Employer.

39. Tax

The rates quoted by the Contractor shall be deemed to be exclusive of GST and inclusive of other taxes that the Contractor will have to pay for the performance of this Contract. The Employer will perform such duties in regard to the deduction of such taxes at source as per applicable law.

40. Price Adjustment:
(As per the G.O. No.FD 3 PCL 2008, Bangalore, Dated: 21.11.2008)
If the period of execution is more than 6 months but less than or equal to 12 months for work costing more than Rs.50 lakhs, star rates in respect of specified materials (cement, steel and bitumen) only shall be payable to the contractor based on the all India average wholesale price index for the said materials. The star rates adjustment shall be as per the increase or decrease in the index as applied to the said materials between the last date for receiving bidsand the date of execution as per the approved programmer of works submitted by the contractor at the time of execution of agreement which shall mandatorily be a part of the agreement.

41. Liquidated damages

The Contractor shall pay liquidated damages to the Employer at the rate per day stated in the Contract Data for each day that the Completion Date is later than the Intended Completion Date (for the whole of the works or the milestone as stated in the Contract Data). The total amount of liquidated damages shall not exceed the amount defined in the Contract Data. The Employer may deduct liquidated damages from payments due to the Contractor. Payment of liquidated damages does not affect the Contractor's liabilities.
If the Intended Completion Date is extended after liquidated damages have been paid, the Employer shall correct any overpayment of liquidated damages by the Contractor by adjusting the next payment of bill.

42. Advance Payments: Refer Section 6: Contract Data

43. Securities:

The Security deposit (including additional security for unbalanced tenders) shall be provided to the Employer no later than the date specified in the Letter of Acceptance and shall be issued in an amount and form and type of instrument acceptable to the Employer. The Security deposit shall be valid until a date 30 days from the date of

expiry of Defects Liability Period and the additional security for unbalanced tenders shall be valid until a date 30 days from the date of issue of the certificate of completion.

44. Cost of Repairs:

Loss or damage to the Works or Materials to be incorporated in the Works between the Start Date and the end of the Defects Correction periods shall be remedied by the Contractor at the Contractor's cost if the loss or damage arises from the Contractor's acts or omissions.

E. Finishing the Contract

45. Completion

The Contractor shall request the Employer to issue a Certificate of Completion of the Works and the Employer will do so upon deciding that the Work is completed.

46. Taking over

The Employer shall take over the Site and the Works within seven days of issuing a certificate of Completion.

47. Final account

The Contractor shall supply to the Employer a detailed account of the total amount that the Contractor considers payable under the Contract before the end of the Defects Liability Period. The Employer shall issue a Defect Liability Certificate and certify any final payment that is due to the Contractor within 90 days of receiving the Contractor's account if it is correct and complete. If it is not, the Employer shall issue within 90 days a schedule that states the scope of the corrections or additions that are necessary. If the Final Account is still unsatisfactory after it has been resubmitted, the Employer shall decide on the amount payable to the Contractor and make payment within 60 days of receiving the Contractor's revised account.

48. As built drawings and /or Operating and Maintenance Manuals

If "as built" (Completion *drawings*) Drawings and/or operating and maintenance manuals are required, the Contractor shall supply them by the dates stated in the Contract Data.
If the Contractor does not supply the Drawings by the dates stated in the Contract Data, or they do not receive the Employer's approval, the Employer shall withhold the amount stated in the Contract Data from payments due to the Contractor.

49. Termination

The Employer may terminate the Contract if the other party causes a fundamental breach of the Contract.
Fundamental breaches of Contract include, but shall not be limited to the following:

(a) the Contractor stops work for 45 days when no stoppage of work is shown on the current Program and the stoppage has not been authorized by the Employer;
(b) Deleted.
(c) The Contractor becomes bankrupt or goes into liquidation other than for a reconstruction or amalgamation;
(d) Deleted.
(e) the Employer gives Notice that failure to correct a particular Defect is a fundamental breach of Contract and the Contractor fails to correct it within a reasonable period of time determined by the Employer;
(f) the Contractor does not maintain a security which is required;
(g) the Contractor has delayed the completion of works by the number of days for which the maximum number of liquidated damages can be paid as defined in the Contract data; and
(h) if the Contractor, in the judgment of the Employer has engaged in corrupt or fraudulent practices in competing for or in the executing the Contract.
For the purpose of this paragraph: "corrupt practice" means the offering, giving, receiving or soliciting of anything of value to influence the action of a public official in the procurement process or in contract

execution. “Fraudulent practice” means a misrepresentation of facts in order to influence a procurement process or the execution of a contract to the detriment of the Borrower, and includes collusive practice among Tenderers (prior to or after Tender submission) designed to establish Tender prices at artificial non-competitive levels and to deprive the Borrower of the benefits of free and open competition.”

When either party to the Contract gives notice of a breach of contract to the Employer for a cause other than those listed under Sub Clause 49.2 above, the Employer shall decide whether the breach is fundamental or not.

Notwithstanding the above, the Employer may terminate the Contract for convenience.

If the Contract is terminated the Contractor shall stop work immediately, make the Site safe and secure and leave the Site as soon as reasonably possible.

50. Payment upon Termination

If the Contract is terminated because of a fundamental breach of Contract by the Contractor, the Employer shall prepare bill for the value of the work done less advance payments received up to the date of the bill, less other recoveries due in terms of the contract, less taxes due to be deducted at source as per applicable law and less the percentage to apply to the work not completed as indicated in the Contract Data. Additional Liquidated Damages shall not apply. If the total amount due to the Employer exceeds any payment due to the Contractor the difference shall be a debt payable to the Employer.

If the Contract is terminated at the Employer's convenience or because of a fundamental breach of Contract by the Employer, the Employer shall prepare bill for the value of the work done, the reasonable cost of removal of Equipment, repatriation of the Contractor's personnel employed solely on the Works, and the Contractor's costs of protecting and securing the Works and less advance payments received up to the date of the certificate, less other recoveries due in terms of the contract, and less taxes due to be deducted at source as per applicable law and make payment accordingly.

51. Property

All materials on the Site, Plant, Equipment, Temporary Works and Works are deemed to be the property of the Employer, if the Contract is terminated because of a Contractor’s default.

52. Release from performance

If the Contract is frustrated by any event entirely outside the control of either the Employer or the Contractor the Employer shall certify that the Contract has been frustrated. The Contractor shall make the Site safe and stop work as quickly as possible after receiving this certificate and shall be paid for all work carried out before receiving it and for any work carried out afterwards to which commitment was made

F. Special Conditions of Contract

1. Labour :

The Contractor shall, unless otherwise provided in the Contract, make his own arrangements for the engagement of all staff and labour, local or other, and for their payment, housing, feeding and transport.

The Contractor shall, if required by the Employer, deliver to the Employer a return in detail, in such form and at such intervals as the Employer may prescribe, showing the staff and the numbers of the several classes of labour from time to time employed by the Contractor on the Site and such other information as the Employer may require.

2. Compliance with labour regulations:

During continuance of the contract, the Contractor shall abide at all times by all existing labour enactments and rules made there under, regulations, notifications and bye laws of the State or Central Government or local authority and any other labour law (including rules), regulations, bye laws that may be passed or notification that may be issued under any labour law in future either by the State or the Central Government or the local authority. The Contractor shall keep the Employer indemnified in case any action is taken against the Employer by the competent authority on account of contravention of any of the provisions of any Act or rules made there under, regulations or notifications including amendments. If the Employer is caused to pay or reimburse, such amounts as may be necessary to cause or observe, or for non-observance of the provisions stipulated in the notifications/bye laws/Acts/Rules/regulations including amendments, if any, on the part of the Contractor, Employer shall have the right to deduct any money due

to the Contractor including his amount of security deposit. The Employer shall also have right to recover from the Contractor any sum required or estimated to be required for making good the loss or damage suffered by the Employer.

The employees of the Contractor in no case shall be treated as the employees of the Employer at any point of time.

3. Protection of Environment:

The contractor shall take all reasonable steps to protect the environment on and off the Site and to avoid damage or nuisance to persons or to property of the public or others resulting from pollution, noise or other causes arising as a consequence of his methods of operation. During continuance of the contract, the contractor shall abide at all times by all existing enactments on environmental protection and rules made there under, regulations, notifications and bye-laws of the State or Central Government, or local authorities and any other law, bye-law, regulations that maybe passed or notification that may be issued in this respect in future by the State or Central Government or the local authority.

4. Arbitration (Clause 24)

The procedure for arbitration shall be as follows:

(a) In case of dispute or difference arising between the Employer and the Contractor relating to any matter arising out of or connected with this agreement it shall be settled in accordance with the Arbitration and Conciliation Act 1996. The disputes or differences shall be referred to a Sole Arbitrator. The Sole Arbitrator shall be appointed by agreement between the parties; failing such agreement, by the Appointing Authority (any one of the Organizations as per list enclosed in Annexure)
(b) Arbitration proceedings shall be held at……., Karnataka state(to be filled in by the Employer before issue of the Tender Documents),
(c) The cost and expenses of arbitration proceedings will be paid as determined by the Arbitrator. However the expenses incurred by each party in connection with the preparation, presentation, etc., shall be borne by each party itself.
(d) Performance under the contract shall continue during the arbitration proceedings and payments due the Contractor by the Employer shall not be withheld, unless they are the subject matter of the arbitration proceedings.

5. In the case of the death of a Contractor after executing the agreement / commencement of the work, his legal heir, if an eligible registered Contractor and willing can execute and complete the work at the accepted tender rates irrespective of the cost of the work.

6. The Contractor shall provide One four-wheeler along with driver, fuel expenses to Project Engineers in-charge of work to facilitate and co-ordinate the supervision of the work.

7. The Contractor shall establish field lab and field office to facilitate quality assurance of execution of works.

[Add other Clauses specific to the work for which tenders are invited.]

Annexure:

LIST OF ORGANIZATIONS WHO ARE CONSIDERED AS APPOINTING AUTHORITY FOR APPOINTMENT OF ARBITRATORS[5]

1. Indian Council of Arbitration, New Delhi;
2. International Centre for Alternative Disputes Resolution (India);
3. Indian Roads Congress;
4. Indian Building Congress;
5. Indian Institute of Bridge Engineers;
6. Indian Institute of Public Health Engineers;
7. Institute of Water Works
8. SWM Rules-2016, BBMP Bye-Laws per SWM

SECTION 6: CONTRACT DATA

Items marked "N/A" do not apply in this Contract.

The following documents are also part of the Contract:	**Clause Reference**
• The Schedule of Operations Manuals	[48]
• The Methodology and Program of Construction N/A	[25]
• Site Investigation Reports	[14]
• The Schedule of Key and Critical Equipment to be deployed on the work as per agreed program of construction. N/A	[25]

The Employer is :

Name: **The Managing Director** [1.1]
BSWML, Bangalore

Name of authorized Representative:
Deputy General Manager-1, BSWML,
1st Floor, UNI Building,
Thimmaiah road, Bengaluru-560052

The name and identification number of the Contract is **DGM-1/BSWML/TEND/03/2024-25 , Date:06.07.2024**
[1.1]

"LED Projector screen in the parks (Lalbhagh / Cubbon park/ selected parks/lakes among the wards"

The Works consist of Installing LED Screen with Environmental Sensor among famous Parks and Lakes within BBMP Limits
The start date shall be the date of issue of notice to proceed with the work. [1.1]

The Intended Completion Date for the whole
of the Works is **12 months** with the following milestones [17, 26]

The Defects Liability Period is ONE years after submitting COMPLETION REPORT.

The Site Possession Date is: Date of work order [21]

The Sites are located at **various locations in BBMP Limits** [1.1]
and is defined in drawings nos. _____

"LED Projector screen in the parks (Lalbhagh / Cubbon park/ selected parks/lakes among the wards"

Insurance requirements are as under:

	Type of Cover	Minimum cover for Insurance[6]
(i)	Works and of Plant and materials	The sum stated in the Agreement (contract Value) plus 20%
(ii)	Loss or damage to equipment	Full replacement cost
(iii)	Loss or damage to property of Third Party	Full replacement cost
(iv)	Personal injury or death insurance (a) for Third Party[7]	5.00 Lakhs each person
	(b) for Contractor's employees or labour	In accordance with the statutory requirements applicable to Karnataka Rs. 5.00Lakhs each person

Price Adjustment Formula**; (DELETED)** [40]

The liquidated damages for the whole of the works are Rs. 40,000/- (Forty thousand only) per day[54] and that for the milestones are as under.

The maximum amount of liquidated damages for the whole of the works [41]
is Ten percent of final contract price.

The amounts of the advance payment are [42]

Nature of Advance	Amount (Rs.)	Conditions to be fulfilled
1. Mobilization	5% of the Contract price	On submission of un-conditional Bank Guarantee. (to be drawn before end of 20% of Contract period)

(The advance payment will be paid to the Contractor no later than 30 days after fulfillment of the above conditions).

Repayment of advance payment for mobilization : [42]

The advance loan shall be repaid with percentage deductions from the interim payments certified by the Engineer under the Contract. Deductions shall commence in the next Interim Payment Certificate following that in which the total of all such payments to the Contractor has reached not less than 15 percent of the Contract Price or Three months from the date of payment of first installment of advance, whichever period concludes earlier, and shall be made at the rate of 7.5% percent of the amounts of all Interim Payment Certificates until such time as the loan has been repaid, always provided that the loan shall be completely repaid prior to the expiry of the original time for completion pursuant to Clauses 17 and 26.

[9]The date by which "as-built"[10] drawings (in scale …[11]) in 2 sets are required is within

[8] To be filled up by the Employer before issue of the tender document; say „Three or four months"

30 days of issue of certificate of completion of Whole or Section of the

Work as the case may be. [48]
[12]The date by which

LED Projector screen in the parks (Lalbhagh / Cubbon park/ selected parks/lakes among the wards"among the wards Project work are required is within 30 days of issue of certificate of completion of Whole or Section of the Work as the case may be. [48]

(The amount should be sufficient to get the completion drawings or operating and Maintenance Manuals prepared by alternative agency in case the contractor fails to submit.) [48]

The following events shall also be fundamental breach of the contract: [49.2]

1. The contractor has contravened Sub-clause 7.1 and Clause 9 of CC.

The percentage to apply to the value of the work not completed representing the Employer's [50.1]

Additional cost for completing the Works shall be 30 percent (30%) .
(Change if need be. It should be sufficient to get the balance of works completed by alternative agency.)

SECTION 8: SPECIFICATONS

Section A

- **Outdoor LED Display**

Approved Make	Daktronics /Delta/NEC/Samsung
Parameter	**Specifications**
Display Size	4.8 m X 3.84 m or higher
Pixel Pitch	6.67 mm or lower
Configuration	SMD 3-in-1 LED Type
Pixel Density	22,500 pixels/m2 or better
Brightness Calibrated	5500 cd/m2 or better
Dimming Capability	0-255 Levels or higher
Contrast Ratio	5000:1 or better
Refresh Rate	3840 Hz or better
Color Processing	14-bit or better
Colors	4.4 Trillion or better
Viewing Angle	H: 140° or better, V: 120° or better
Lifetime	100,000 hrs or better
Power Input	AC 100V-240V
Max. Power Consumption	700 W/Sqm or lower
Temperature Range	-20° ~ + 50°C
Humidity	10%~90%RH
Service Access	Rear/ Front
Ingress Protection of Front of Tile	Should meet or exceed Front IP65
Ingress Protection Rear of Tile	Should meet or exceed Rear IP65
LED Tile/ Cabinet Calibration	LED tiles/cabinets should be calibrated before being supplied. These screens should also be calibrated after the installation to ensure brightness uniformity. Calibration should also be performed as and when it is required during the warranty period. Offered product which does not support dot calibration shall be rejected
Brightness measurement tool	Emitted brightness measurement tool namely a luminance meter (which can provide direct brightness reading in cd/m²) for brightness measurement of offered LED screen. OEM of LED Display should provide details (Model No. & Date of Purchase) of the luminance meter available with them in India along with its latest calibration certificate. The same instrument shall be used to check the minimum brightness levels as offered in the bid. Please note- Illuminance meters are not acceptable as they are not for measuring emitted light
Mandatory Indian Certifications (BIS Registration copy to be submitted with the supply)	BIS Registration (Bureau Of Indian Standards) As per Standard: IS 13252 (PART 1) :2010. Offered model BIS certificate should be on OEM brand and their own manufacturing unit in India. Valid BIS certificate to be provided for the offered LED tiles/cabinets. BIS certificate for led module only shall not be considered as valid BIS
Quality/Health & Safety/Environmental Certifications of OEM/OEM subsidiary in India. (Copy to be submitted along with the bid)	Quality Management System 9001:2015, ISO 27001
	Occupation health & Safety Management System - OHSAS 45001:2018
	Environmental Management System 14001: 2015
Installations by OEM	OEM/Bidder should have installed/completed at least one project comprising minimum 50 Outdoor LED Screens/VMD's with SMD

	RGB 3 in 1 LED technology with at least 18 Sqm area in India. All the LED screens shall be connected in a single network with content being published centrally and control also being done centrally. Proof of this should be submitted

- LED Controller

Parameter	**Specifications**
Control Port	USB/RJ 45 (LAN)
Signal Input	1 x HDMI & 1x USB
Signal Output	RJ45 as required for LED wall
Maximum Load Capacity	As per resolution of LED Display
Input Voltage	100~240 VAC
Operating Temperature	0-50 Deg C
LED wall and controller should be from same OEM/OEM brand to avoid any integration issues at later stage	

- Media Player

Parameter	**Specifications**
Media Player with built in Playout software	Of reputed manufacturers
Processor	Intel/ARM /Other High End
OS	Windows based/ Android
Internal Storage	16GB or more
Output	HDMI/Display Port for Graphics
Video	At least should support MPEG-4, WMV, QuickTime
Audio	MP3, WAV
Image	JPEG, PNG, BMP, GIF
Text	Multiple fonts, Speeds, colors, animations
Internet	HTML, XML Files, RSS newsfeeds
Network	Ethernet 1000/100/10 (RJ45)
Playlist Automation	Flexible scheduling based on day, date and time; Playlist Scheduling; Emergency Override
Content Manager	To be able to create playlists and send them over the network to media players or more for playout based on schedule and sequencing.
Content Distribution	Scalable Design simplified user interfaces

- **Power Distribution Unit :**

Parameter	**Specifications**
Front Door	2 Hinges with Rack
Wall Mount Clamp	Welded on Rack frame rear side
19" pillar front & 19" pillar rear	Bolted on rack side wall

Locking Arrangement	To be provided with a locking system
Limit Switch	The rack door to be provided with a limit switch
Earthing	Earthing studs should be provided in the rack for Earthing purposes
Cable points	Cable entry and exit points should be provided in the rack
Mounting	Should be possible to mount the rack either on a pole or on a wall with options of different mounting types
Material	GI 120 gsm thickness 1.5 mm
IP rating	IP54
AC input	380V/220V
AC Power Load Max	As per LED power requirement
Surge protection	Class C
Over temperature protection	Selectable from 30 deg to 60 deg C
Refrigerant	R134a for harsh conditions
Anti-Theft	Should be mounted in an ant-theft design
Surface treatment	Outdoor type power coating
Cooling Capacity	Minimum 600W@L35/L35
Power Consumption	Maximum 280W@L35/L35
Internal Airflow	Minimum130 m^3/h
Maximum Noise Level	60dB(A)
Remote Cotrol	Should be possible to control the power distribution unit from the Central Control Center over IP
Display Panel	Should be provided with a display panel to show parameters like cabinet temperature, indications for - cooling, running of external fans, flashing on alarm

- Auto Brightness Sensor

Rated voltage	5V
Operating temperature	-30℃~70℃
Operating humidity	0~99%
Brightness range	0~65535 lux
Cable	5m
Features	• Monitor the ambient brightness to achieve automatic brightness adjustment of LED display. • Asynchronous • Outdoor use proofing • No external power supply required

Mechanical Structure For Mounting Of LED Walls

Material	Mild Steel should be used to for the structure to mount the LED walls.
Documents	Bidder should provide detailed engineering drawings for the mounting structure and frame
Site Survey	The deployment of the work based on site survey for pre-approved site/locations provided by the authority.

	Structure withstands calculations should be provide by the bidder
Mechanical Structure	Mounting of LED screen shall be at 4-6m height based on the site survey
Structure design	OEM should have in house facility for structure design in India
Type of pole	Unipole or Bipole based on the site condition and drawings
Painting of the pole	Enamel paint. One coat of red oxide and 2 coat painting
Civil foundation	The root of pole should be reinforced firmly based on the Site condition and drawings.

Section B

- Surveillance Camera:

8 MP CAMERAS WITH NVR , POE SWITCH, AND HDD (1 SET) WITH WATER PROOF JUNCTION BOX WITH MINI UPS. 8 MP IP CAMERAS WITH 4K NVR , POE, AND HDD - 8 TB for each pole (1 SET)- hack proof cameras IP camera is for streaming live visual of the street or installed area. It is a IP based network enabled device and it will be communicate directly thorugh it's application, 8MP BULLET camera has both PoE enabled power input or can be connected using power adaptor. Camera device is one of the crucial element in a smart pole.

- Panic button/Emergency Call Button

Emergency Call Button or Panicbutton is a device, from which user can communcate to operator/agent using intercom service. ECB is a network enabled device and it is managed centrally. User can make a call to central system by pushing call button in the device. It is a two way communcation devices.

Emergency Call Button (ECB):	
Front panel:	Ecopro_Com
Model:	EIPL_ECB
Dimension (W x H x D):	with flush mount kit: W 164 (6.46), H 279 (10.98), D 14 (0.55) with surface mount kit: W 164 (6.46), H 279 (10.98), D 50 (1.97)
Weight incl. package:	approx. 1,500 g (3.3 lbs)
IP Rating:	IP66
Mechanical impact resistance:	IK09
Front panel:	Stainless steel, 3 mm (0.12 in)
Microphone:	electret condenser microphone polar pattern: omnidirectional speaking distance: max. 7 m (23 ft)
Amplifier:	integrated class-D amplifier with 2.5 W
Input:	3 inputs for floating contacts (detection of 5 input states)
Output:	2 relay outputs (switch-over contacts)max. 60 VDC, 2 A, 60 W 1) expected life: min. 5 x 104 (2 A), 105 (1 A)
Call button:	back-lit direct dialling buttons with label areas
Transmission bandwidth:	16 kHz
Operating Temperature:	−20 °C to +70 °C (+4 °F to +158 °F)
Storage temperature:	−20 °C to +70 °C (+4 °F to +158 °F)
Relative humidity:	up to 95%, non-condensing
Cabling:	min. Cat. 5
Connection:	pluggable screw terminals expansion plug for e.g. EB2E2AHE

	IP Uplink: shielded RJ45 modular jacks
Power supply:	PoE or external supply 12 – 24 VAC or 15 – 35 VDC power consumption: max. 4 W
PoE (Power over Ethernet):	IEEE 802.3af standard Power consumption of the terminal device:Class 0 (0.44 W to 12.95 W)
Protocol:	IoIP-Protocol based on UDP/IP
Data rate:	0/100 MBit/s (Full/Half Duplex)
Mounting:	flush mount kit WSFB 50V surface mount kit WSSH 50V
Software feature:	Receive call / make call, Call Recording, Automatic volume control,option to call to PA system.
Speaking Distance:	5 ft and above

Section C

- Environmental Sensor

Envrironmental sensor is a smart device, which measure environmental parameters, such as air quality elements, temperature, humidity, light elements, wind pressure, rain depression etc. The connected sensor measures almost fourteen to fifteen parameters in a editable frequencies.
Environmental sensor data is crucial data for any smart city project. It measures most of the surronding enrironmental particles and calculate Air Quality Index value.

Environmental Sensor			
Model:	EIPL_ENV		
Dimensions:	120 x 140 x 100 mm		
Weight:	800 grams		
Enclosure:	IP 65		
Measurement Elements:	Senso r	Range	Resolution
	Temperature	10 - 70°C	0.01°C
	Humidity	20 - 80 %r.H	3 %r.H
	PM1.0	1-500 µg/m^3	1 µg/m^3
	PM2.5	1-500 µg/m^3	1 µg/m^3
	PM10	1-1000 µg/m^3	1 µg/m^3
	CO	0 -500 ppm	0.1 ppm
	CO_2	0 -5000 ppm	5 ppm
	NO_2	0 -5 ppm	0.2 ppm
	SO_2	0 -20 ppm	0.5 ppm
	O_3	0 -10 ppm	0.01 ppm
	Hydrocarbons (CH2O)	0-6.250 mg/m^3	0.1 mg/m^3

	Total Volatile Carbons (TVOC)	0-3 grade	1 grade
	UV a+b Sensors	0-15 mW/ cm^2	0.1 mW/ cm^2
	Ambient Light	Upto 10000 Lux	10 Lux
	Sound Sensor	40 -120 dB	1db
	Rain Sensor	0-10 cm	0.1 cm
	Wind Speed	1-322 km/h	±5%
	Wind Direction	0-360°	0.1 cm
Connectivity:	Ethernet	Gigabit Ethernet	

The bidder should demonstrate the accuracy of the data parameters which are sensed and these should be in co-relation with KSPCB (Karnataka State Pollution Control Board) sensor data.

Section D

- Public Adress system:

Public Announcement system or in short PAS, is a set of devices, from which user can be able announce live announcements or play pre-recorded audio messages. PAS is a network enabled device and centrally we can control installed devices.

Public Announcement System (PAS) Amplifier:	
Make:	Ecopro_Com
Model:	EIPL_PAS
Dimension (W x H x D):	401 x 44 x 267 mm (15.79 x 1.73 x 10.51 in)
Weight incl. package:	approx. 3,400 g (7.5 lbs)
Input Voltage:	main power supply: 100 – 240 VAC (50 – 60 Hz, 170 W) DC backup power supply: 24 VDC (21 – 28 VDC, max. 6.5A)
IP Rating:	IP20
Output Power:	125 W (RMS)
Loud Speaker output:	100 V, switchable to 70 V via software
Operating Temperature:	−5°C to +55 °C (+14 °F to +122 °F)
Storage Temperature:	−25 °C to +70 °C (−13 °F to +158 °F)
Protocols :	IoIP® protocol, based on UDP/IP SIP : IPv6,IPv4, TCP, UDP, HTTP (RFC 2617, RFC 3310),RTP (RFC 3550), RTCP, DHCP, SDP (RFC 2327), SIP (RFC 3261), SNMPv2, STUN, TFTP, URI (RFC 2396),DTMF Decoding (RFC 2876, RFC 2833), SIP User Agent (UDP RFC 3261), SIP Refer Method (RFC 3515)
Cabling:	min. Cat. 5

Connection:	2 shielded RJ45 modular jacks (IP uplink and IP downlink) pluggable screw terminals (0.14 mm2 – 1.5 mm2): outputs, inputs, microphone, line out pluggable screw terminals (0.25 mm2 – 2.5 mm2):loudspeaker, DC input AC power supply (IEC-60320-C14)
Microphone input:	sensitivity: −43 dBV/Pa feeding voltage: 2.5 V at 3.3 k
Frequency response:	50 Hz to 15 kHz (−3 dB)
SIP audio bandwidth:	7 kHz
Signal-to-noise ratio (SNR):	amplifier: > 106 dB codec G.722: > 80 dB
Inputs:	2 inputs for floating contacts (detection of 5 input states)
Network Interface:	2 RJ45 connectors (1 Uplink and 1 Downlink
Signal-to-noise ratio (SNR):	amplifier: > 106 dB codec G.722: > 80 dB
Outputs:	relay output (changeover contact): max. 60 W (DC)/ 37.5 VA (AC), max. 2 A 4), max. 60 VDC/30 VACeff expected life: min. 105 (30 VDC/2 A), 5 x 105 (30 VDC/1 A)
Control input:	0 – 10 V (for remote volume control), Automatic volume control
Audio file support:	WAV, MP3, OGG, etc.
PAS Speaker:	
Speaker:	30 Watts x 3
Frequency Response of Speaker:	350 to 10KHz
IP Rating:	IP66
Protection:	IK 10
Operating Temperature:	−10°C to +55 °C
Construction:	ABS Material
Operating Temperature:	−10°C to +55 °C
Sound Pressure:	110 db & above
Input Power:	24V DC PoE Powered
IP Rating:	IP 50
Operating Temperature:	-0ºC to +55ºC
Microphone:	1 ft (3 to 7 mtrs speaking distance)
Transmission Bandwidth:	16K
Features :	IP with LCD, standard keypad and 8 direct dialling buttons, gooseneck microphone. Access Control Machanism Call Recording

Terms & Conditions

Terms & Conditions

- GST Extra as applicable

BILL OF QUANTITIES

COMMERCIAL INVESTMENT:

SL#	PRODUCT DESCRIPTION	Unit	Qty	Rate in figures	Rate in words
1	SUPPLY AND INSTALLATION OF OUTDOOR LED WALL – 4.8m X 3.84m WITH 6.67MM PIXEL PITCH BASED OUTDOOR DIRECT VIEW TRUE COLOUR LED WALL INCLUSIVE OF: • LED CONTROLLER SYSTEM • MEDIA PLAYER • SOFTWARE • STRUCTURE • EARTHING • 5 YEARS WARANTY WITH SUPPORTING POLE FABRIFICATION AS PER STANDARDS. • Mild Steel should be used to for the structure to mount the LED walls • Bidder should provide detailed engineering drawings for th mounting structure and frame • The deployment of the work based on site survey for pre-approve site/locations provided by the authority • Structure withstands calculations should be provide by the bidder • Mounting of LED screen shall be at 4-6m height based on the sit survey • OEM should have in house facility for structure design in India • Unipole or Bipole based on the site condition and drawings • Enamel paint. One coat of red oxide and 2 coat painting • The root of pole should be reinforced firmly based on the Sit condition and drawings WITH O & M COST FOR 5 YEARS FOR POLES, FABRICATIONS AND OUT DOOR LED DISPLAY – **INCLUSIVE.** **Further detail, refer Section A of Chapter 8: Specification**	Nos	4	8592954.00	Eighty-five lakhs ninety-two thousand nine-hundred and fifty four only

2	SUPPLY AND INSTALLATION OF OUTDOOR LED WALL – 2.89m X 1.92m WITH 6.67MM PIXEL PITCH BASED OUTDOOR DIRECT VIEW TRUE COLOURLED WALL INCLUSIVE OF: • LED CONTROLLER SYSTEM • MEDIA PLAYER • SOFTWARE • STRUCTURE • EARTHING • 5 YEARS WARAN TYWITH SUPPORTING POLE FABRIFICATION AS PER STANDARDS. • Mild Steel should be used to for the structure to mount the LED walls • Bidder should provide detailed engineering drawings for thmounting structure and frame • The deployment of the work based on site survey for pre-approvesite/locations provided by the authority • Structure withstands calculations should be provide by the bidder Mounting of LED screen shall be at 4-6m height based on the sit survey • OEM should have in house facility for structure design in India • Unipole or Bipole based on the site condition and drawings • Enamel paint. One coat of red oxide and 2 coat painting • The root of pole should be reinforced firmly based on the Sitcondition and drawings WITH O & M COST FOR 5 YEARS FOR POLES, FABRICATIONS AND OUTDOOR LED DISPLAY – **INCLUSIVE** • **Further detail, refer Section A of Chapter 8: Specification**	Nos	1	3215464	Thirty Two Lakh Fifteen Thousand Four-Hundred and Sixty Four Rupees
3	8 MP CAMERAS WITH NVR , POE SWITCH, AND HDD (1 SET) WITH WATERPROOF JUNCTION BOX WITH MINI UPS. 8 MP IP CAMERAS WITH 4K NVR , POE, AND HDD - 8 TB for each pole (1 SET)- hack proof cameras IP camera is for streaming live visual of the street or installed area. It is a IP based network enabled device and it will be communicate directly through it's application, 8MP BULLET camera has both PoE enabled power input or can be connected using power adaptor. Camera device is one of the crucial elements in a smart pole. **Further detail, refer Section B of Chapter 8: Specification**	**Nos**	5	300000	Three lakh rupees

4	PANIC BUTTONS Emergency Call Button or Panic button is a device, from which user can communicate to operator/agent using intercom service. ECB is a network enabled device and it is managed centrally. User can make a call to central system by pushing call button in the device. It is a two-way communication device. **Further detail, refer Section B of Chapter 8: Specification**	**Nos**	5	212308	Two lakh twelve Thousand three Hundred and eight rupees
5	ENIVIRONMENT SENSORS Environmental sensor is a smart device, which measure environmental parameters, such as air quality elements, temperature, humidity, light elements, wind pressure, rain depression etc. The connected sensor measures almost fourteen to fifteen parameters in a editable frequencies. Environmental sensor data is crucial data for any smart city project. It measures most of the surrounding environmental particles and calculate AirQuality Index value. **Further detail, refer Section C of Chapter 8: Specification**	**Nos**	5	169231	One lakh Sixty nine Thousand two Hundred andThirty one rupees
6	Public Announcement system or in short PAS, is a set of devices, from which user can be able announce live announcements or play pre-recordedaudio messages. PAS is a network enabled device and centrally we can control installed devices. **Further detail, refer Section D of Chapter 8: Specification**	**Nos**	5	192308	One lakh ninty two Thousand three Hundred and eight rupees
7	APPLICATION AND DATA WARRANTY. Should be able to integrate all theData System, Maintenance, Storage with Non-Hacking System.	**Nos**	1	1200729	Twelve lakh Seven Hundred and Twenty Nine rupees
8	Broadband (1GBPS Fibernet) per Pole for 5 Years	Nos	5	900000	Nine lakh rupees
9	BESCOM per Pole for 5 Years	Nos	5	300000	Three lakh rupees
10	O& M FOR 5 YEARS FOR ITEM NO 3 TO 9	Nos	5	511949	Five lakh eleven Thousand nine Hundred and fourty Nine rupees

Note:

(1) Item for which no rate or price has been entered in will not be paid for by the Employer when executed and shall be deemed covered by the other rates and prices in the Bill of Quantities

(2) Unit rates and prices shall be quoted by the Tenderer in Indian Rupees.

(3) Where there is a discrepancy between the rate in figures and words, the lower of the two will govern.

(4) Where there is a discrepancy between the unit rate and the line-item total resulting from multiplying the unit rate by quantity, the unit rate quoted shall govern

SECTION 10: FORMAT OF BANK GUARANTEE FOR SECURITY DEPOSIT

To ..... *[Name of Employer]*
Employer]…… *[address of*

WHEREAS ……. *[Name and address of Contractor]* (Hereinafter called "the Contractor") has undertaken, in pursuance of Contract No. ……. dated .....to execute ……..*[name of Contract and brief description of Works]* (hereinafter called "the Contract");

AND WHEREAS it has been stipulated by you in the said Contract that the Contractor shall furnish you with a Bank Guarantee by a recognized bank for the sum specified therein as security for compliance with his obligations in accordance with the Contract;

AND WHEREAS we have agreed to give the Contractor such a Bank Guarantee;

NOW THEREFORE we hereby affirm that we are the Guarantor and responsible to you, on behalf of the Contractor, up to a total of Rs. ……. *[Amount of guarantee]*[13]_Rupees ..... *[in words]*, and we undertake topay you, upon your first written demand and without cavil or argument, any sum or sums within the limits of …… *[amount of guarantee]*[14] as aforesaid without your needing to prove or to show grounds or reasons for your demand for the sum specified therein.

We hereby waive the necessity of your demanding the said debt from the Contractor before presenting us with the demand.

We further agree that no change or addition to or other modification of the terms of the Contract or of the Works to be performed there under or of any of the Contract documents which may be made between you and the Contractor shall in any way release us from any liability under this guarantee, and we hereby waive notice of any such change, addition or modification.

This guarantee shall be valid until 30 days from the date of expiry of the Defects Liability Period.

Signature and seal of the guarantor _____

_____

Name of Bank _____

_____

Address _____

Date _____